

Title (en)  
AIR SPRING ARRANGEMENT WITH INTEGRATED CONTROL VALVE

Title (de)  
LUFTFEDERANORDNUNG MIT INTEGRIERTEM STEUERVERTIL

Title (fr)  
SYSTÈME DE RESSORT PNEUMATIQUE À SOUPAPE DE COMMANDE INTÉGRÉE

Publication  
**EP 2897821 A1 20150729 (DE)**

Application  
**EP 13765742 A 20130920**

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Abstract (en)  
[origin: WO2014044820A1] The invention relates to an air spring arrangement having at least one integrated control valve (1) for the admission of compressed air into a pressure chamber (5) formed between an outer tube (2), a rolling tube (3) and an air spring bellows (4) that connects said outer tube and rolling tube, wherein the at least one integrated control valve (1) can be actuated, with multiple switching positions, by integrated mechanical actuation means as a function of an air spring stroke for ride-height adjustment, wherein furthermore, the pressure chamber (5) comprises a compression spring (8) which is braced at the end sides between a tube upper part (6) and a tube lower part (7) of the outer tube (2), and a lever (9) which is mechanically connected to the at least one integrated control valve (1) can be actuated by means of at least one actuation lug (10), which is arranged on an end surface of the tube lower part (7), in order to realize a stepped characteristic for an aeration and deaeration of the pressure chamber (5).

IPC 8 full level  
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See references of WO 2014044820A1

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